

Patent [19]

[11] Patent Number: 10281485

[45] Date of Patent: Oct. 23, 1998

CG

[54] AIR CLEANING DEVICE

[21] Appl. No.: 09081496 JP09081496 JP

[22] Filed: Mar. 31, 1997

[51] Int. CL⁶ F24F00100 ; A61L00920

[57] ABSTRACT

PROBLEM TO BE SOLVED: To reduce an air-flow resistance and to prevent leakage of light by a simple structure wherein a light-shading member is equipped with a plurality of parallel flat plates with a prescribed gap between them and these flat plates are slanted at a prescribed angle in the vertical direction so that they may suppress the leakage of light into an indoor living space.

SOLUTION: An air cleaning device is constructed by stacking vertically an indoor unit for air conditioning and an air cleaning unit wherein a photocatalyst purifies contaminants. A photocatalyst element 61 is held inside a lower case 42. A lower face (light-intercepting member) 42a has a plurality of parallel flat plates 42c and 42d with a prescribed gap Q from each other, openings 7 and vents 8 formed above a partition plate 22. The parallel flat plates 42c and 42d are slanted at a prescribed angle P in the vertical direction so that they can suppress leakage of light into an indoor main living space. Herein the prescribed angle P is set at 40-60 degrees, for instance, which is preferable from the standpoint of preventing the leakage of light while reducing an air-flow resistance.
